

Mini902M

V1.0

Jan 2018

1. Features

Mini902M is a high-end and full-featured ultra-small size mini-receiver card. Compared with traditional receiver card, Mini902M uses high-density BTB connector. It is more flexible and it adapts to a variety of electronic circuit structure, achieving a card suitable for all applications, which will considerably reduce the types of purchasing receiver card.

The system, specific circuits and program design of Mini902M, can effectively reduce the electromagnetic radiation and effectively help products easily pass through the EMC test. Specific features are as follows:

1. It has all functions of 8th and 9th generation receiver cards and it is completely compatible with them;
2. Single card can support 24- group RGB parallel data output mode;
3. Supports 64-group serial data output mode;

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4. Realize high refresh and high gray level effect;
 5. Supports general driver IC and PWM IC;
 6. Supports any type of scan within 32 scan, and supports 595 and other serial decoding scan;
 7. Supports brightness and color pixel-by-pixel calibration;
 8. Maximum supports 512X512 pixels;
 9. Supports 12-bit HDMI colors input (required the 9th generation sending card);
 10. Use 18-bit signal processor, maximum supporting 18-bit (260,000) gray (each of red, green and blue);
 11. Supports single-card color space conversion;
 12. Supports configuration file read back;
 13. Supports network cable BER test;
 14. Supports hot backup with dual receiver cards, dual power supplier, etc;
 15. RoHS compliant;
 16. CE-EMC compliant.

2. Appearance

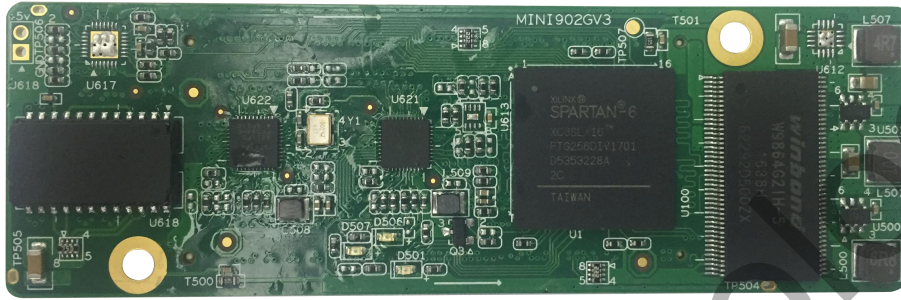
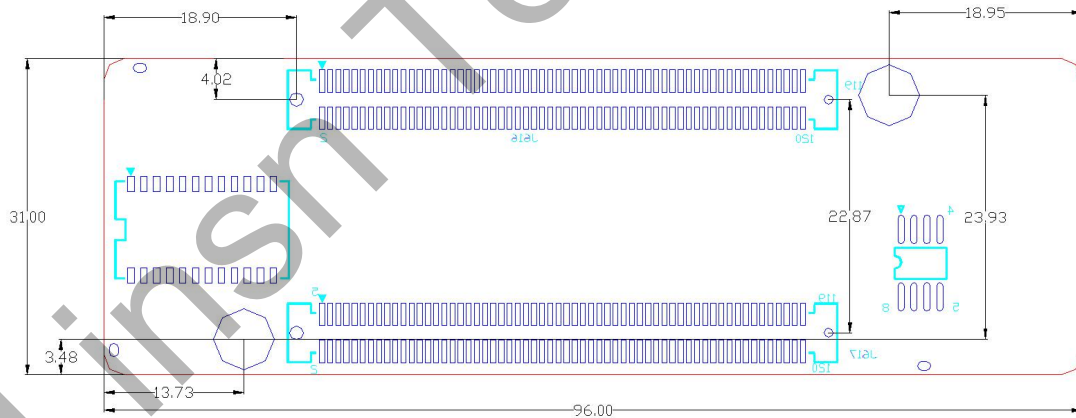


Fig 1 Mini902M Picture

3. Dimensions



(Viewing from top to bottom)

Fig2 Mini902M Hole dimension drawings (Unit: mm)

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4. Pinout

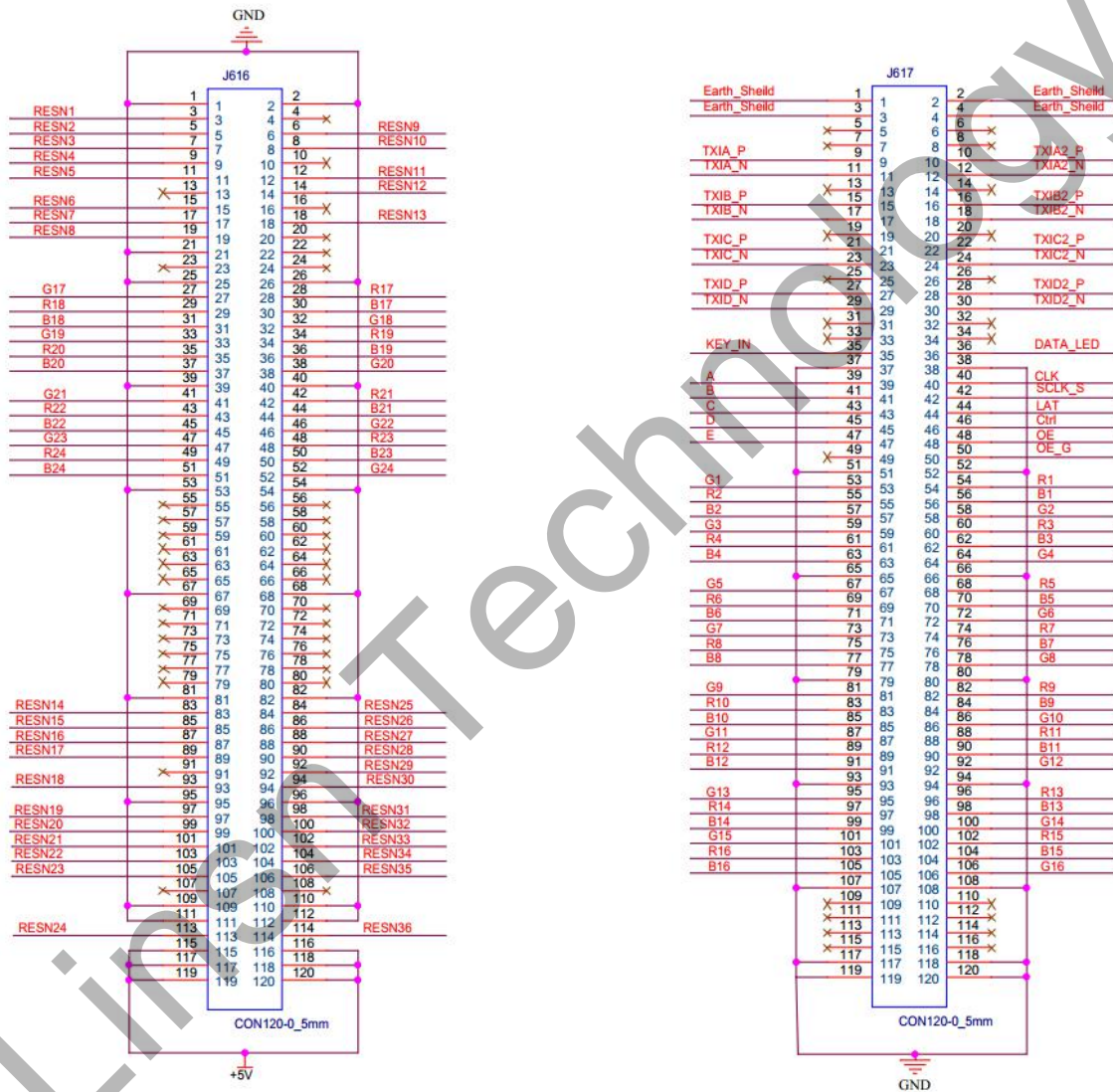


Fig.3 high-density BTB connector

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Definition of the 24-group parallel data output mode

Pinout for Connector1 (J616)

	GND	1	2	GND
	NC	3	4	NC
	NC	5	6	NC
	NC	7	8	NC
	NC	9	10	NC
	NC	11	12	NC
	NC	13	14	NC
	NC	15	16	NC
	NC	17	18	NC
	NC	19	20	NC
	GND	21	22	NC
	NC	23	24	NC
	GND	25	26	GND
	G17	27	28	R17
	R18	29	30	B17
	B18	31	32	G18
	G19	33	34	R19
	R20	35	36	B19
	B20	37	38	G20
	GND	39	40	GND
	G21	41	42	R21
	R22	43	44	B21
	B22	45	46	G22
	G23	47	48	R23
	R24	49	50	B23
	B24	51	52	G24
	GND	53	54	GND
	NC	55	56	NC
	NC	57	58	NC
	NC	59	60	NC

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	NC	61	62	NC	
	NC	63	64	NC	
	NC	65	66	NC	
	GND	67	68	GND	
	NC	69	70	NC	
	NC	71	72	NC	
	NC	73	74	NC	
	NC	75	76	NC	
	NC	77	78	NC	
	NC	79	80	NC	
	GND	81	82	GND	
	NC	83	84	NC	
	NC	85	86	NC	
	NC	87	88	NC	
	NC	89	90	NC	
	NC	91	92	NC	
	NC	93	94	NC	
	GND	95	96	GND	
	NC	97	98	NC	
	NC	99	100	NC	
	NC	101	102	NC	
	NC	103	104	NC	
	NC	105	106	NC	
	NC	107	108	NC	
	GND	109	110	GND	
	GND	111	112	GND	
	NC	113	114	NC	
	VCC	115	116	VCC	
	VCC	117	118	VCC	
	VCC	119	120	VCC	

Pinout for Connector2 (J617)

	Eth_Sheild	1	2	Eth_Sheild	
	Eth_Sheild	3	4	Eth_Sheild	

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	NC	5	6	NC	
	NC	7	8	NC	
Gigabit Network port	TXIA_P	9	10	TXIA2_P	Gigabit Network port
	TXIA_N	11	12	TXIA2_N	
	NC	13	14	NC	
	TXIB_P	15	16	TXIB2_P	
	TXIB_N	17	18	TXIB2_N	
	NC	19	20	NC	
	TXIC_P	21	22	TXIC2_P	
	TXIC_N	23	24	TXIC2_N	
	NC	25	26	NC	
	TXID_P	27	28	TXID2_P	
TXID_N	29	30	TXID2_N		
	NC	31	32	NC	
	NC	33	34	NC	
	KEY_IN	35	36	DATA_LED-	
	GND	37	38	GND	
	A	39	40	CLK	
	B	41	42	SCLK_S	
	C	43	44	LAT	
	D	45	46	SR	
	E	47	48	OE	
	NC	49	50	NC	
	GND	51	52	GND	
	G1	53	54	R1	
	R2	55	56	B1	
	B2	57	58	G2	
	G3	59	60	R3	
	R4	61	62	B3	
	B4	63	64	G4	
	GND	65	66	GND	
	G5	67	68	R5	
	R6	69	70	B5	
	B6	71	72	G6	
	G7	73	74	R7	

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R8	75	76	B7
B8	77	78	G8
GND	79	80	GND
G9	81	82	R9
R10	83	84	B9
B10	85	86	G10
G11	87	88	R11
R12	89	90	B11
B12	91	92	G12
GND	93	94	GND
G13	95	96	R13
R14	97	98	B13
B14	99	100	G14
G15	101	102	R15
R16	103	104	B15
B16	105	106	G16
GND	107	108	GND
NC	109	110	NC
NC	111	112	NC
NC	113	114	NC
NC	115	116	NC
GND	117	118	GND
GND	119	120	GND

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Definition of the 64-group serial data output mode

Pinout for connector1 (J616)

	GND	1	2	GND
	NC	3	4	NC
	NC	5	6	NC
	NC	7	8	NC
	NC	9	10	NC
	NC	11	12	NC
	NC	13	14	NC
	NC	15	16	NC
	NC	17	18	NC
	NC	19	20	NC
	GND	21	22	NC
	SDIN	23	24	NC
	GND	25	26	GND
	Data50	27	28	Data49
	Data52	29	30	Data51
	Data54	31	32	Data53
	Data56	33	34	Data55
	Data58	35	36	Data57
	Data60	37	38	Data59
	GND	39	40	GND
	Data62	41	42	Data61
	Data64	43	44	Data63
	NC	45	46	NC
	NC	47	48	NC
	NC	49	50	NC
	NC	51	52	NC
	GND	53	54	GND
	NC	55	56	NC
	NC	57	58	NC
	NC	59	60	NC

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	NC	61	62	NC
	NC	63	64	NC
	NC	65	66	NC
	GND	67	68	GND
	NC	69	70	NC
	NC	71	72	NC
	NC	73	74	NC
	NC	75	76	NC
	NC	77	78	NC
	NC	79	80	NC
	GND	81	82	GND
	NC	83	84	NC
	NC	85	86	NC
	NC	87	88	NC
	NC	89	90	NC
	NC	91	92	NC
	NC	93	94	NC
	NC	95	96	NC
	NC	97	98	NC
	NC	99	100	NC
	NC	101	102	NC
	NC	103	104	NC
	NC	105	106	NC
	NC	107	108	NC
	GND	109	110	GND
	GND	111	112	GND
	NC	113	114	NC
	VCC	115	116	VCC
	VCC	117	118	VCC
	VCC	119	120	VCC

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Pinout for connector2 (J617)

	NC	1	2	NC	
	NC	3	4	NC	
	NC	5	6	NC	
	NC	7	8	NC	
Gigabit Network port	TXIA_P	9	10	TXIA2_P	Gigabit Network port
	TXIA_N	11	12	TXIA2_N	
	NC	13	14	NC	
	TXIB_P	15	16	TXIB2_P	
	TXIB_N	17	18	TXIB2_N	
	NC	19	20	NC	
	TXIC_P	21	22	TXIC2_P	
	TXIC_N	23	24	TXIC2_N	
	NC	25	26	NC	
	TXID_P	27	28	TXID2_P	
	TXID_N	29	30	TXID2_N	
		NC	31	32	
	NC	33	34	NC	
	KEY_IN	35	36	DATA_LED-	
	GND	37	38	GND	
	A	39	40	CLK	
	B	41	42	SCLK_S	
	C	43	44	LAT	
	D	45	46	SR	
	E	47	48	OE	
	NC	49	50	NC	
	GND	51	52	GND	
	Data2	53	54	Data1	
	Data4	55	56	Data3	
	Data6	57	58	Data5	
	Data8	59	60	Data7	

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Data10	61	62	Data9
Data12	63	64	Data11
GND	65	66	GND
Data14	67	68	Data13
Data16	69	70	Data15
Data18	71	72	Data17
Data20	73	74	Data19
Data22	75	76	Data21
Data24	77	78	Data23
GND	79	80	GND
Data26	81	82	Data25
Data28	83	84	Data27
Data30	85	86	Data29
Data32	87	88	Data31
Data34	89	90	Data33
Data36	91	92	Data35
GND	93	94	GND
Data38	95	96	Data37
Data40	97	98	Data39
Data42	99	100	Data41
Data44	101	102	Data43
Data46	103	104	Data45
Data48	105	106	Data47
GND	107	108	GND
NC	109	110	NC
NC	111	112	NC
NC	113	114	NC
NC	115	116	NC
GND	117	118	GND
GND	119	120	GND

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5. Working Conditions

	Normal	Minimum value	Maximum value	Unit
Rated Power	4	3.3	4.8	W
Rated voltage	5	4.5	5.5	V
Rated current	0.8	0.73	0.87	A
Working temperature		-20	70	°C
Working humidity		0	95	%

END

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